

## IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) ~~[[A]]~~ An interoperable data and voice communication server system that supports simultaneous, multi-party communication between incompatible communication systems, said interoperable data and voice communication system comprising:
  - a first communication system that communicates with first users by a first addressing scheme and a first communication format for any of data and voice, each of said first users having a first unique Internet Protocol (IP) address;
  - a second communication system that communicates with second users by a second addressing scheme and a second communication format for any of data and voice, each of said second users having a second unique Internet Protocol (IP) address; and
  - an interoperable communication server, comprising:
    - a message transfer unit ~~adapted to transfer~~ that transfers any of data and voice messages sent between a first user communicating under a first communication system at said first unique IP address and a second user communicating under a second communication system at said second unique IP address;
    - wherein said first addressing scheme is incompatible with said second addressing scheme; and
    - wherein a global directory, using a common hierarchical addressing scheme for said first unique IP address and said second unique IP address, connects a first user at said first unique IP address to a second user at said second unique IP address;
    - a translator connected to said message transfer unit, said translator ~~being adapted to translate~~ translating any of data and voice messages sent from said first communication system into [[a]] said second communication format compatible with said second communication system and ~~translate messages sent~~ from said second communication system into [[a]] said first communication format compatible with said first communication system;

a voice/data converter that converts voice messages into data messages and data messages into voice messages; and

a voice-over-Internet-protocol (VoIP) unit connected to said message transfer unit, wherein said ~~messages comprise~~ voice messages transmitted through said interoperable communication server ~~[[in]]~~ are converted to a VoIP format.

2. (Cancelled).

3. (Currently Amended) The interoperable communication server in claim 1, further comprising an instant message unit ~~adapted to allow that instant messaging messages~~ between said first communication system and said second communication system.

4. (Cancelled).

5. (Currently Amended) The interoperable communication server in claim 1, further comprising a registration unit ~~adapted to associate users of incompatible communication systems with an incident~~ that registers said first users and said second users with an incident and restricts communication to said first users and said second users upon registration with said incident.

6. (Cancelled).

7. (Currently Amended) The communication server in claim 1, all the limitations of which are incorporated herein by reference, wherein said first communication system and said second communication system ~~[[may]]~~ each comprise any of a plurality of mobile wireless transceivers and a plurality of land-based transceivers ~~adapted to be~~ used by emergency-response organizations.

8. (Currently Amended) [[A]] An interoperable data and voice communication server system that supports simultaneous, multi-party communication between incompatible communication systems, said interoperable data and voice communication system comprising:

a first communication system that communicates with first users by a first addressing scheme and a first communication format for any of data and voice, each of said first users having a first unique Internet Protocol (IP) address;

a second communication system that communicates with second users by a second addressing scheme and a second communication format for any of data and voice, each of said second users having a second unique Internet Protocol (IP) address; and

an interoperable communication server, comprising:

a message transfer unit adapted to transfer messages between users operating under different communication systems, wherein said messages are transmitted through said communication server in an Internet protocol format that transfers any of data and voice messages between a first user at said first unique IP address and a second user at said second unique IP address;

wherein said first addressing scheme is incompatible with said second addressing scheme; and

wherein a global directory, using a common hierarchical addressing scheme for said first unique IP address and said second unique IP address, connects a first user at said first unique IP address to a second user at said second unique IP address;

a translator connected to said message transfer unit, said translator being adapted to translate messages sent to said message transfer unit into formats compatible with said communication systems translating any of data and voice messages sent from said first communication system into said second communication format compatible with said second communication system and from said second communication system into said communication format compatible with said first communication system; and

a registration unit adapted to associate users of communication systems with an incident, such that communications between said users is restricted by incident and by registration

a voice/data converter that converts voice messages into data messages and data messages into voice messages.

9. (Currently Amended) The interoperable communication server in claim 8, further comprising a ~~voice/data converter adapted to convert voice messages into data messages and data messages into voice messages, such that a voice user in a first communication system may transparently communicate with a data user in the same or a second communication system through said communication server~~ a registration unit that registers said first users and said second users with an incident and restricts communication to said first users and said second users upon registration with said incident.

10. (Currently Amended) The interoperable communication server in claim 8, further comprising an instant message unit ~~adapted to allow that instant messaging messages between said first communication systems~~ system and said second communication system.

11. (Currently Amended) The interoperable communication server in claim 8, ~~wherein said message transfer unit is adapted to transfer said messages between said communication systems using discrete Internet protocol addresses~~ further comprising a voice-over-Internet-protocol (VoIP) unit connected to said message transfer unit, wherein said voice messages transmitted through said interoperable communication server are converted to a VoIP format.

12. (Currently Amended) The interoperable communication server in claim 8, wherein said ~~first communication systems may~~ system and said second communication system each comprise any of a plurality of mobile wireless transceivers and a plurality of land-based transceivers adapted to be used by emergency-response organizations.

13. (Cancelled).

14. (Currently Amended) The interoperable communication server in claim 8, wherein said message transfer unit is ~~adapted to transfer said~~ transfers any of said data and voice messages so as to provide real-time communication between said first users and said second users of said ~~different communication systems.~~

15. (Currently Amended) [[A]] An interoperable communication server comprising:  
a message transfer unit ~~adapted to transfer~~ that transfers any of data and voice messages between ~~users operating under different communication systems, wherein said messages are~~ transmitted through said communication server in an Internet protocol format first users of a first communication system and second users of a second communication system;

wherein said first communication system communicates with said first users by a first addressing scheme and a first communication format for any of data and voice, each of said first users having a first unique Internet Protocol (IP) address;

wherein said second communication system communicates with said second users by a second addressing scheme and a second communication format for any of data and voice, each of said second users having a second unique IP address;

wherein said first addressing scheme is incompatible with said second addressing scheme; and

wherein a global directory, using a common hierarchical addressing scheme for said first unique IP address and said second unique IP address, connects a first user at said first unique IP address to a second user at said second unique IP address;

a translator connected to said message transfer unit, said translator ~~being adapted to~~ translate translating any of data and voice messages sent ~~to said message transfer unit into~~ formats compatible with said communication systems from said first communication system into a second communication format compatible with said second communication system and from said second communication system into said first communication format compatible with said first communication system;

~~a registration unit adapted to associate communication systems with an incident, such that~~ communications between said users is restricted by incident and by registration; and

a voice/data converter ~~adapted to convert~~ that converts voice messages into data messages and data messages into voice messages, ~~such that a voice user in a first communication system may transparently communicate with a data user in the same or a second communication system through said communication server.~~

16. (Currently Amended) The communication server in claim 15, all the limitations of which are incorporated herein by reference, further comprising an instant message unit ~~adapted to allow~~ that instant messaging messages between said first communication systems system and said second communication system.

17. (Currently Amended) The interoperable communication server in claim 15, ~~wherein said message transfer unit is adapted to transfer said messages between said communication systems using discrete Internet protocol addresses~~ further comprising a registration unit that registers said first users and said second users with an incident and restricts communication to said first users and said second users upon registration with said incident.

18. (Currently Amended) The communication server in claim 15, all the limitations of which are incorporated herein by reference, wherein said first communication systems may system and said second communication system each comprise any of a plurality of mobile wireless transceivers and a plurality of land-based transceivers ~~adapted to be~~ used by emergency-response organizations.

19. (Cancelled).

20. (Currently Amended) The communication server in claim 15, all the limitations of which are incorporated herein by reference, wherein said message transfer unit ~~is adapted to transfer~~ transfers any of said data and voice messages so as to provide real-time communication between said first users of said different communication systems and said second users.

21. (Currently Amended) A method of providing interoperable data and voice communications that supports simultaneous, multi-party communications between ~~different~~ incompatible communication systems, said method comprising:

~~placing~~ transferring any of data and voice messages between first users of a first communication system and second users of a second communication system in communication with a via an interoperable communication server,

~~wherein said first communication system and said second communication system may be incapable of communicating directly with each other;~~

wherein said first communication system communicates with said first users by a first addressing scheme and a first communication format for any of data and voice, each of said first users having a first unique Internet Protocol (IP) address;

wherein said second communication system communicates with said second users by a second addressing scheme and a second communication format for any of data and voice, each of said second users having a second unique IP address;

wherein said first addressing scheme is incompatible with said second addressing scheme; and

wherein a global directory, using a common hierarchical addressing scheme for said first unique IP address and said second unique IP address, connects a first user at said first unique IP address to a second user at said second unique IP address;

translating any of data and voice messages sent from said first communication system into [[a]] said second communication format compatible with said second communication system and translating messages sent from said second communication system into [[a]] said first communication format compatible with said first communication system, using said interoperable communication server;

converting voice messages into data messages and data messages into voice messages, using said interoperable communication server; and

~~transmitting~~ converting voice messages between said first communications system and said second communications system, transmitted through said interoperable communication server, [[in]] to a voice-over-Internet-protocol (VoIP) format.

22. (Cancelled).

23. (Currently Amended) The method in claim 21, ~~wherein said transmitting includes further~~ comprising sending instant messaging messages between said first communication system and said second communication system.

24. (Cancelled).

25. (Currently Amended) The method in claim 21, wherein said first communication system and said second communication system ~~may~~ each comprise any of a plurality of mobile wireless transceivers and a plurality of land-based transceivers ~~adapted to be~~ used by emergency-response organizations.

26. (Cancelled).

27. (Currently Amended) The method in claim 21, wherein said ~~transmitting transfers said messages so as to provide~~ transferring any of data and voice messages between first users of a first communication system and second users of a second communication system provides real-time communication between said first users of said different incompatible communication systems and said second users.

28. (Currently Amended) A method of providing interoperable data and voice communications that supports simultaneous, multi-party communications between ~~different incompatible~~ communication systems of different emergency response agencies, said method comprising:

identifying an incident;

associating ~~at least one~~ a first communication system with said incident;

associating ~~at least one~~ a second communication system with said incident;



~~placing transferring any of data and voice messages between first users of said first communication system and second users of said second communication system in communication with a~~ via an interoperable communication server, wherein said first communication system and said second communication system may be incapable of communicating directly with each other;

wherein said first communication system communicates with said first users by a first addressing scheme and a first communication format for any of data and voice, each of said first users having a first unique Internet Protocol (IP) address;

wherein said second communication system communicates with said second users by a second addressing scheme and a second communication format for any of data and voice, each of said second users having a second unique IP address;

wherein said first addressing scheme is incompatible with said second addressing scheme; and

wherein a global directory, using a common hierarchical addressing scheme for said first unique IP address and said second unique IP address, connects a first user at said first unique IP address to a second user at said second unique IP address;

translating any of data and voice messages sent from said first communication system into [[a]] said second communication format compatible with said second communication system and translating messages sent from said second communication system into [[a]] said first communication format compatible with said first communication system, using said interoperable communication server; and

converting voice messages into data messages and data messages into voice messages, using said interoperable communication server; and

restricting communications between said first communication system and said second communication system [[by]] to said incident.

29. (Cancelled).

30. (Currently Amended) The method in claim 28, ~~wherein said transmitting includes further~~ comprising sending instant messaging messages between said first communication system and said second communication system.

31. (Cancelled).

32. (Currently Amended) The method in claim 28, wherein said first communication system and said second communication system ~~[[may]]~~ each comprise any of a plurality of mobile wireless transceivers and a plurality of land-based transceivers ~~adapted to be~~ used by emergency-response organizations.

33. (Cancelled).

34. (Currently Amended) The method in claim 28, ~~transmitting transfers said messages so as to provide~~ transferring any of data and voice messages between first users of a first communication system and second users of a second communication system provides real-time communication between said first users ~~of said different incompatible communication systems~~ and said second users.

35. (Currently Amended) A method of providing interoperable data and voice communications that supports simultaneous, multi-party communications between ~~different~~ incompatible communication systems, said method comprising:

~~connecting~~ transferring any of data and voice messages between first users of a first communication system and second users of a second communication system to a via an interoperable communication server, wherein said first communication system and said second communication system are incapable of communicating directly with each other; [[and]]

wherein said first communication system communicates with said first users by a first addressing scheme and a first communication format for any of data and voice, each of said first users having a first unique Internet Protocol (IP) address;

wherein said second communication system communicates with said second users by a second addressing scheme and a second communication format for any of data and voice, each of said second users having a second unique IP address;

wherein said first addressing scheme is incompatible with said second addressing scheme; and

wherein a global directory, using a common hierarchical addressing scheme for said first unique IP address and said second unique IP address, connects a first user at said first unique IP address to a second user at said second unique IP address;

translating any of data and voice messages sent from said first communication system into [[a]] said second communication format compatible with said second communication system and ~~translating messages sent~~ from said second communication system into [[a]] said first communication format compatible with said first communication system, using said interoperable communication server; and

~~wherein said translating further comprises translating voice messages to data messages and translating data messages to voice messages, such that a voice user in said first communication system may transparently communicate with a data user in the same or said second communication system through said communication server~~

converting voice messages into data messages and data messages into voice messages, using said interoperable communication server.

36. (Currently Amended) The method in claim 35, ~~wherein said transmitting includes further comprising sending instant messaging messages~~ between said first communication system and said second communication system.

37. (Cancelled).

38. (Currently Amended) The method in claim 35, wherein said first communication system and said second communication system each comprise any of a plurality of mobile wireless

transceivers and a plurality of land-based transceivers ~~adapted to be~~ used by emergency-response organizations.

39. (Cancelled).

40. (Currently Amended) The method in claim 35, wherein ~~transmitting transfers said messages so as to provide~~ transferring any of data and voice messages between first users of a first communication system and second users of a second communication system provides real-time communication between said first users of said different incompatible communication systems and said second users.